



# Report from Physics Coordinators

Keisuke Fujii  
on behalf of the Physics WG  
Aug 26, 2020

# **ILC Situation in Japan**

# Current Status

- *Because of COVID19, it is not an appropriate time to bring up a big scientific project like ILC.*
- *However, the political environment about ILC is now very good, thanks, in particular, to strong US support (Jim Siegrist, Abid Patwa, at a recent DOE-HEP PI meeting).*
- *The climate change: The first stage of the ILC is 250 GeV but, now studies on energy upgrade even above 1 TeV is encouraged.*
- *Although the number of infection cases is increasing,*
  - *KEK is operating in the new normal mode,*
  - *and various ILC promotion activities are on-going, through the federation of diet members for ILC. Political environment improving.*
  - *Tohoku upgraded its ILC promotion organization on Aug.6.*
- *Various strategy discussions are on going in KEK (KEK Roadmap) and JAHEP (Future HEP Project Committee). Note: IPNS RPC finished, recommending further enforcement of ILC promotion effort.*
- *The International Development Team to take over LCC/LCB:*
  - *LCB's proposal was approved on Aug. 2 and IDT started.*
  - *A new ICFA statement issued on Aug. 4.*

## 東北 I L C 事業推進センターの設立について

令和2年8月6日、ホテルサンルート一関（岩手県一関市）において東北 I L C 事業推進センター設立総会が開催され、規約を承認するとともに役員を選任を行いました。

また、設立総会に引き続き、第1回総会が開催され、令和2年度事業計画及び予算が承認されました。

第1回総会后、「I L C を取り巻く現況について」と題して、センターの代表に選任された鈴木岩手県立大学長が講演を行いました。



- **Tohoku upgraded its ILC promotion organization on Aug.6.**  
**Tohoku ILC planning office → Tohoku ILC project development center**



August 2, 2020

## **ICFA announces a new phase towards preparation for the International Linear Collider**

At its 86th meeting held today, ICFA approved the formation of the International Linear Collider International Development Team as the first step towards the preparatory phase of the ILC project, with a mandate to make preparations for the ILC Pre-Lab in Japan.

A description of the mandate and structure of the ILC International Development Team was also approved by ICFA today.

The Team will commence its work immediately and is expected to complete it by the end of 2021.

The ILC International Development Team will work towards making a timely realization of the ILC possible.

ICFA thanks the Linear Collider Collaboration led by Dr. Lyn Evans for its excellent work over the past several years.

### Contacts:

Geoffrey Taylor (ICFA, Chair) - The University of Melbourne

Tatsuya Nakada (Chair, Executive Board, ILC International Development Team) - EPFL, Lausanne

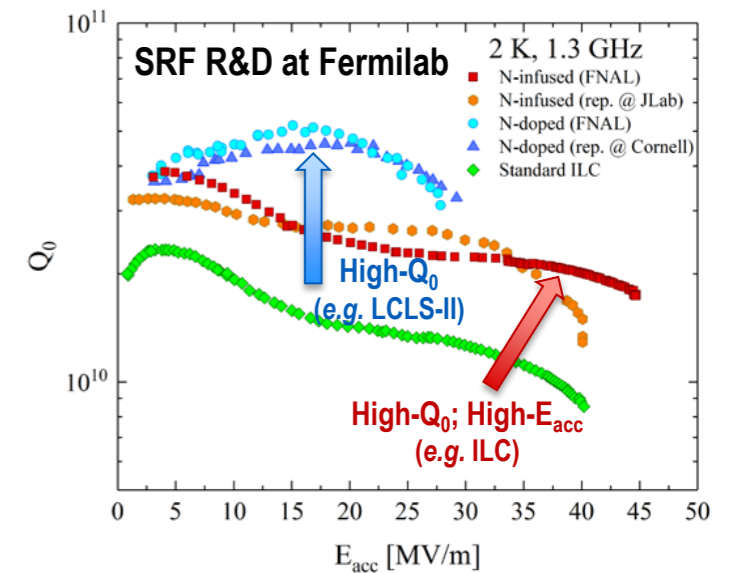
# ILC International Development Team

To prepare the ILC Pre-Lab (without pre-empting the work of the Pre-Lab).

- Timeline ~1.5 years commencing now.
- Clarify the **function and organization** of the ILC Pre-Lab
- Develop common understanding for the **condition to start the ILC Pre-Lab**,
- Provide international framework for the **ILC accelerator effort**
  - Coordinating further R&D and engineering design work ... for a smooth transition to the ILC Pre-Lab phase,
- Provide international framework for the **ILC physics and detector** activities
  - Coordinate physics and detector R&D effort ... for smooth transition to the ILC Pre-Lab phase,
- **Negotiate with international partners** ... for **resources needed** for the ILC Pre-Lab, and
- ...work with **national authorities** to help in ... **establishing** the ILC Pre-Lab.

## U.S. Efforts Towards the International Linear Collider

- ▶ U.S. supports the development and realization of a future Higgs Factory with international participation, taking into consideration the 2014 P5 strategy
- ▶ 2014 P5 recommendation: *"Motivated by the strong scientific importance of the ILC and the recent initiative in Japan to host it, the U.S. should engage in modest and appropriate levels of ILC accelerator and detector design in areas where the U.S. can contribute critical expertise. Consider higher levels of collaboration if the ILC proceeds."*



- ▶ Current support from the U.S. to enable Japan move forward with the ILC
  - ▶ U.S. R&D efforts focused in cost-reduction for accelerator superconducting radiofrequency (SRF) cavities and modest ILC detector R&D
  - ▶ To strengthen the long-standing U.S.-Japan cooperation in science and technology, concerted effort during last 12-15 months by the U.S. Government — DOE, U.S. State Department, The White House Office of Science & Technology Policy, and the National Security Council — to support a Japanese initiative to move forward to the proposed ILC "Pre-Laboratory" phase of the project
- ▶ DOE supports the recent ICFA-formed ILC International Development Team and its efforts towards making the timely realization of the ILC "Pre-Laboratory" phase possible

# ***IDT Phys/Det WG (WG3)***

***now preparing for Snowmass***

***Aug. 31: Snowmass Lol deadline***

***Aug. 28: 1st Snowmass Tutorial***

<https://indico.fnal.gov/event/45031/overview>

***Oct. 5-8: Snowmass Community Planning Meeting***

<https://indico.fnal.gov/event/44870/overview>

***Registration is open. Please register.***



# ***ILD Physics WG Activities***

***- Joint Effort with Software WG  
and IDT WG3 -***

***Today (Aug 26)***

- ***Strategy and samples for flavor training by Ryo***
- ***Jet error parametrization and application in kinematic fit by Jasser***

# *Proposed S&A meeting schedule*

*Aug. 26: Daniel*

*Aug. 28: 1st Snowmass Tutorial* <https://indico.fnal.gov/event/45031/overview>

*Sep. 9: Frank*

*Sep. 23: Jenny*

*Oct. 5-8: Snowmass Community Planning Meeting*

<https://indico.fnal.gov/event/44870/overview>

*Oct. 7: KF*

*Oct. 19-22: AWLC2020*

*Oct. 21: Daniel*

*Biweekly S&A meeting on Wednesday at 14:00 CERN time.*

*Physics conveners' meeting every two weeks on Wednesday at 14:00 CERN time interleaved with S&A meetings.*

**Conveners' ML:**

[ild-physics-conveners@desy.de](mailto:ild-physics-conveners@desy.de)

*Use this mailing list to send your talk request.*

***Stay healthy!***